

What is claimed is:

1. An ink jet recording apparatus comprising:
 - a recording head of ink jet type for jetting ink from a plurality of jet openings;
 - a light source for emitting light to cure an ink jetted from the recording head and adhered to a recording medium;
 - a light quantity measuring section for measuring a light quantity of the light source; and
 - a control section for controlling the light quantity of the light source according to a measured value by the light quantity measuring section.
2. The ink jet recording apparatus of claim 1, wherein the ink jet recording apparatus comprises a light source scanning section for scanning the light source above the recording medium by moving the light source in a direction perpendicular to a carrying direction of the recording medium, and a plurality of light sources disposed at different positions seen from the direction perpendicular to the carrying direction of the recording medium, the plurality of light sources being moved in order in a measuring region for the light measuring section to make the light quantity measuring section measure a light quantity of each of the plurality of light sources in order.

3. The ink jet recording apparatus of claim 2, further comprising a recording head scanning section for scanning the recording head above the recording medium by moving the recording head in the direction perpendicular to the carrying direction of the recording medium, wherein the light source scanning section is formed to move the light sources together with the ink jet head by the recording head scanning section.

4. The ink jet recording apparatus of claim 1, wherein the ink jet recording apparatus comprises a plurality of light sources and a scanning section, the scanning section moving the light quantity measuring section to measure a light quantity of each of the plurality of light sources in order by the light quantity measuring section.

5. The ink jet recording apparatus of claim 1, wherein the ink jet recording apparatus comprises a plurality of light sources at different positions seen from a carrying direction of the recording medium and a scanning section, the scanning section moving the light quantity measuring section in the carrying direction of the recording medium to measure a light quantity of each of the plurality of light sources in order by the light

quantity measuring section.

6. The ink jet recording apparatus of claim 1, further comprising a recording medium supporting section for supporting the recording medium disposed between the light source and the light quantity measuring section, wherein at least a portion of the recording medium supporting section comprises a member which makes at least a portion of light of the light source pass therethrough.

7. The ink jet recording apparatus of claim 1, further comprising a storage section for storing a desired value of a light quantity controlled by the control section, and a display section for informing a measured result to a user when a measured value measured by the light quantity measuring section is less than the desired value.

8. The ink jet recording apparatus of claim 1, further comprising a storage section for storing a desired value of a light quantity controlled by the control section, wherein a recording operation by the recording head is banned when a measured value measured by the light quantity measuring section is less than the desired value.

9. The ink jet recording apparatus of claim 2, wherein a light quantity is measured by the light quantity measuring section every scanning.

10. The ink jet recording apparatus of claim 3, wherein a light quantity is measured by the light quantity measuring section every scanning.

11. The ink jet recording apparatus of claim 1, wherein a light quantity is measured by the light quantity measuring section when recording on the recording medium is started or finished.

12. The ink jet recording apparatus of claim 1, wherein a light quantity is measured by the light quantity measuring section when the ink jet recording apparatus is operating or on standby.

13. The ink jet recording apparatus of claim 1, wherein a light quantity is measured by the light quantity measuring section according to a preset operating time of the ink jet recording apparatus or an elapsed time after the ink jet recording apparatus was activated.

14. The ink jet recording apparatus of claim 1, wherein the light source is any one of a mercury lamp, a metal halide lamp, a semiconductor laser and a light emitting diode.

15. The ink jet recording apparatus of claim 1, wherein the ink is cured by an ultraviolet-ray.

16. The ink jet recording apparatus of claim 1, wherein the ink comprises a cationic polymerization ink.

17. An ink jet recording apparatus comprising:
a recording head on which a plurality of jet openings are arranged in line for jetting photo-curable ink from the jet openings on a recording medium;
a plurality of light sources for irradiating an ink jetted from the recording head with light to cure the ink;

a light quantity measuring section for measuring a light quantity of each of the plurality of light sources;

a storage section for storing a desired value of each of the plurality of light sources; and

a control section for controlling the light quantity of each of the plurality of light sources according to measured values by the light quantity measuring section and desired values stored in the

storage section, when a measured value of a first light source is less than a desired value of the first light source, the control section increasing a light quantity of a second light source which is different from the first light source.

18. The ink jet recording apparatus of claim 17, wherein the ink jet recording apparatus comprises a light source scanning section for scanning the light source above the recording medium by moving the light source in a direction perpendicular to a carrying direction of the recording medium, and the plurality of light sources are disposed at different positions seen from the direction perpendicular to the carrying direction of the recording medium, the plurality of light sources being moved in order in a measuring region for the light measuring section to make the light quantity measuring section measure a light quantity of each of the plurality of light sources in order.

19. The ink jet recording apparatus of claim 18, further comprising a recording head scanning section for scanning the recording head above the recording medium by moving the recording head in the direction perpendicular to the carrying direction of the recording medium, wherein the light source scanning section is formed to

move the plurality of light sources together with the ink jet head by the recording head scanning section.

20. The ink jet recording apparatus of claim 17, further comprising a scanning section for moving the light quantity measuring section to measure a light quantity of each of the plurality of light sources in order by the light quantity measuring section.

21. The ink jet recording apparatus of claim 17, further comprising a scanning section, wherein the plurality of light sources are disposed at different positions seen from a carrying direction of the recording medium, and the scanning section moves the light quantity measuring section in the carrying direction of the recording medium to measure a light quantity of each of the plurality of light sources in order by the light quantity measuring section.

22. The ink jet recording apparatus of claim 17, further comprising a recording medium supporting section for supporting the recording medium disposed between the light source and the light quantity measuring section, wherein at least a portion of the recording medium supporting section comprises a member which makes at least a portion of light of the light source pass

therethrough.

23. The ink jet recording apparatus of claim 17, further comprising a display section for informing a measured result to a user when a measured value measured by the light quantity measuring section is less than the desired value.

24. The ink jet recording apparatus of claim 17, wherein the control section increases a light quantity of a light source which is proximity to the first light source.

25. The ink jet recording apparatus of claim 17, wherein a light source which is proximity to the first light source irradiates a surface of the recording medium with light having a light quantity not less than a light quantity in case that the first light source irradiating with light having a desired light quantity.

26. The ink jet recording apparatus of claim 17, wherein an irradiated light quantity of a light source which is proximity to the first light source is determined according to a profile of the light source which is proximity to the first light source.

27. The ink jet recording apparatus of claim 17, wherein a recording operation by the recording head is banned when a measured value measured by the light quantity measuring section is less than the desired value.

28. The ink jet recording apparatus of claim 18, wherein a light quantity is measured by the light quantity measuring section every scanning.

29. The ink jet recording apparatus of claim 19, wherein a light quantity is measured by the light quantity measuring section every scanning.

30. The ink jet recording apparatus of claim 17, wherein a light quantity of is measured by the light quantity measuring section when recording on the recording medium is started or finished.

31. The ink jet recording apparatus of claim 17, wherein a light quantity is measured by the light quantity measuring section when the ink jet recording apparatus is operating or on standby.

32. The ink jet recording apparatus of claim 17, wherein a light quantity is measured by the light quantity measuring section according to a preset

operating time of the ink jet recording apparatus or an elapsed time after the ink jet recording apparatus was activated.

33. The ink jet recording apparatus of claim 17, wherein the light source is any one of a mercury lamp, a metal halide lamp, a semiconductor laser and a light emitting diode.

34. The ink jet recording apparatus of claim 17, wherein the ink is cured by an ultraviolet-ray.

35. The ink jet recording apparatus of claim 17, wherein the ink comprises a cationic polymerization ink.